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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 7

Application Number 09/966,163  
Filing Date September 28, 2001  
First Named Inventor Paul Burrows  
Group Art Unit 1772  
Examiner Name  
Attorney Docket Number VIT 0012 PA

## U.S. PATENT DOCUMENTS

| Examiner<br>Initials <sup>*</sup> | Cite<br>No. <sup>1</sup> | U.S. Patent Document |                                      | Name of Patentee or Applicant<br>of Cited Document | Date of Publication of<br>Cited Document<br>MM-DD-YYYY | Pages, Columns, Lines,<br>Where Relevant<br>Passages or Relevant<br>Figures Appear |
|-----------------------------------|--------------------------|----------------------|--------------------------------------|--|--|--|
|                                   |                          | Number               | Kind Code <sup>2</sup><br>(if known) |  |  |  |
| PA                                |                          | 6,198,217            |                                      | Suzuki et al.                                      | 03/06/2001   |  |
| PA                                |                          | 5,952,778            |                                      | Haskal et al.                                      | 09/14/1999   |  |
| PA                                |                          | 5,811,177            |                                      | Shi et al.   | 09/22/1998   |  |
| PA                                |                          | 5,771,562            |                                      | Harvey, III et al.                                 | 06/30/1998   |  |
| PA                                |                          | 5,189,405            |                                      | Yamashita et al.                                   | 02/23/1993   |  |
| PA                                |                          | 5,124,204            |                                      | Yamashita et al.                                   | 06/23/1992   |  |
| PA                                |                          | 5,036,249            |                                      | Pike-Bieganski et al.                              | 07/30/1991   |  |
| PA                                |                          | 3,475,307            |                                      | Knox et al.  | 10/28/1969   |  |
| PA                                |                          | 3,607,365            |                                      | Lindlof  | 09/21/1971   |  |
| PA                                |                          | 4,283,482            |                                      | Hattori et al.                                     | 08/11/1981   |  |
| PA                                |                          | 4,581,337            |                                      | Frey et al.  | 04/08/1986   |  |
| PA                                |                          | 4,842,893            |                                      | Yializis et al.                                    | 06/27/1989   |  |
| PA                                |                          | 4,954,371            |                                      | Yializis   | 09/04/1990   |  |
| PA                                |                          | 5,032,461            |                                      | Shaw et al.  | 07/16/1991   |  |
| PA                                |                          | 5,237,439            |                                      | Misono et al.                                      | 08/17/1993   |  |
| PA                                |                          | 5,260,095            |                                      | Affinito   | 11/09/1993   |  |
| PA                                |                          | 5,354,497            |                                      | Fukuchi et al.                                     | 10/11/1994   |  |
| PA                                |                          | 5,395,644            |                                      | Affinito   | 03/07/1995   |  |
| PA                                |                          | 5,427,638            |                                      | Goetz  | 06/27/1995   |  |
| PA                                |                          | 5,440,446            |                                      | Shaw et al.  | 08/08/1995   |  |

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|                                   |                          | Office <sup>3</sup>     | Number <sup>4</sup> | Kind Code <sup>5</sup><br>(if known) |  |  |  |                |
| PA                                |                          |                         | BE 704 297          | J                                    | Continental Oil Company                            | 02/01/1968   |  |                |
| PA(AES)                           |                          |                         | DE 19603746         | ✓                                    | Bosch GmbH Robert                                  | 04/24/1997   |  |                |
| PA                                |                          |                         | EP 0 299 753        | ✓                                    | The BOC Group, Inc.                                | 02/10/1993   |  |                |
| PA                                |                          |                         | EP 0 547 550        | ✓                                    | Matsushita Electric Ind Co.                        | 06/23/1993   |  |                |
| PA                                |                          |                         | EP 0 340 935        | ✓                                    | Spectrum Control, Inc.                             | 11/08/1989   |  |                |
| PA                                |                          |                         | EP 0 390 540        | ✓                                    | Sharp KK   | 08/03/1994   |  |                |
| PA(AES)                           |                          |                         | EP 0 590 467        | ✓                                    | Rohm GMBH  | 04/06/1994   |  |                |
| PA                                |                          |                         | EP 0 722 787        | ✓                                    | Catalina Coatings, Inc.                            | 07/24/1996   |  |                |
| PA                                |                          |                         | EP 0787 826         | ✓                                    | Becton Dickinson and Co.                           | 08/06/1997   |  |                |
| PA                                |                          |                         | EP 0 916 394        | ✓                                    | Sharp KK   | 05/19/1999   |  |                |

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Sheet 2 of 7

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| PIA                               |                          | 5,536,323            |                                      | Kirlin et al.                                      | 07/16/1996   |  |
| PIA                               |                          | 5,547,508            |                                      | Affinito   | 08/20/1996   |  |
| PIA                               |                          | 5,554,220            |                                      | Forrest et al.                                     | 09/10/1996   |  |
| PIA                               |                          | 5,576,101            |                                      | Saitoh et al.                                      | 11/19/1996   |  |
| PIA                               |                          | 5,607,789            |                                      | Treger et al.                                      | 03/04/1997   |  |
| PIA                               |                          | 5,620,524            |                                      | Fan et al.   | 04/15/1997   |  |
| PIA                               |                          | 5,629,389            |                                      | Roitman et al.                                     | 05/13/1997   |  |
| PIA                               |                          | 5,654,084            |                                      | Egert  | 08/05/1997   |  |
| PIA                               |                          | 5,681,615            |                                      | Affinito et al.                                    | 10/28/1997   |  |
| PIA                               |                          | 5,681,666            |                                      | Treger et al.                                      | 10/28/1997   |  |
| PIA                               |                          | 5,684,084            |                                      | Lewin et al.                                       | 11/04/1997   |  |
| PIA                               |                          | 5,686,360            |                                      | Harvey, III et al.                                 | 11/11/1997   |  |
| PIA                               |                          | 5,693,956            |                                      | Shi et al.   | 12/02/1997   |  |
| PIA                               |                          | 5,711,816            |                                      | Kirlin et al.                                      | 01/27/1998   |  |
| PIA                               |                          | 5,725,909            |                                      | Shaw et al.  | 03/10/1998   |  |
| PIA                               |                          | 5,731,661            |                                      | So et al.  | 03/24/1998   |  |
| PIA                               |                          | 5,747,182            |                                      | Friend et al.                                      | 05/05/1998   |  |
| PIA                               |                          | 5,757,126            |                                      | Harvey, III et al.                                 | 05/26/1998   |  |
| PIA                               |                          | 5,759,329            |                                      | Krause et al.                                      | 06/02/1998   |  |
| PIA                               |                          | 5,792,550            |                                      | Phillips et al.                                    | 08/11/1998   |  |

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| PIA                               |                          |                         | EP 0 931 850        |                                      | Leybold Systems GmbH                               | 07/28/1999   |  |                |
| PIA                               |                          |                         | EP 0 977 469        |                                      | Hewlett Packard Company                            | 02/02/2000   |  |                |
| PIA (ABS)                         |                          |                         | JP 08325713         |                                      | Matsushita Electric Works                          | 12/10/1996   |  |                |
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| PIA (ABS)                         |                          |                         | JP 63136316         |                                      | Hitachi Ltd.                                       | 06/08/1988   |  |                |
| PIA                               |                          |                         | JP 2-183230         |                                      | Akagi et al.                                       | 07/17/1990   |  |                |
| PIA                               |                          |                         | JP 64-18441         |                                      | Yoshida et al.                                     | 01/23/1989   |  |                |
| PIA                               |                          |                         | WO 97 04885         |                                      | Battelle Memorial Inst.                            | 02/13/1997   |  |                |
| PIA                               |                          |                         | WO 87 07848         |                                      | Spectrum Control, Inc.                             | 12/30/1987   |  |                |
| PIA                               |                          |                         | WO 98 10116         |                                      | Talison Research                                   | 03/12/1998   |  |                |

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| First Named Inventor   | Paul Burrows       |    |  |  |                    |            |             |                    |                      |              |                |      |               |  |                        |             |
| Group Art Unit   | 1772               |    |  |  |                    |            |             |                    |                      |              |                |      |               |  |                        |             |
| Examiner Name  |                    |    |  |  |                    |            |             |                    |                      |              |                |      |               |  |                        |             |
| Attorney Docket Number   | VIT 0012 PA        |    |  |  |                    |            |             |                    |                      |              |                |      |               |  |                        |             |
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| <b>Application Number</b> | 09/966,163 |
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| First Named Inventor | Paul Burrows |
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| Group Art Unit | 1772 |
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| PIA                            |                       | 5,811,177            |                                      | Shi et al.                                      | 09/22/1998  |  |
| PIA                            |                       | 5,811,183            |                                      | Shaw et al.                                     | 09/22/1998  |  |
| PIA                            |                       | 5,821,692            |                                      | Rogers et al.                                   | 10/13/1998  |  |
| PIA                            |                       | 5,844,363            |                                      | Gu et al.                                       | 12/01/1998  |  |
| PIA                            |                       | 5,872,355            |                                      | Hueschen  | 02/16/1999  |  |
| PIA                            |                       | 5,902,641            |                                      | Affinito et al.                                 | 05/11/1999  |  |
| PIA                            |                       | 5,902,688            |                                      | Antoniadis et al.                               | 05/11/1999  |  |
| PIA                            |                       | 5,912,069            |                                      | Yializis et al.                                 | 06/15/1999  |  |
| PIA                            |                       | 5,922,161            |                                      | Wu et al.                                       | 07/13/1999  |  |
| PIA                            |                       | 5,945,174            |                                      | Shaw et al.                                     | 08/31/1999  |  |
| PIA                            |                       | 5,948,552            |                                      | Antoniadis et al.                               | 09/07/1999  |  |
| PIA                            |                       | 5,945,907            |                                      | Huang et al.                                    | 10/12/1999  |  |
| PIA                            |                       | 5,996,498            |                                      | Lewis   | 12/07/1999  |  |
| PIA                            |                       | 6,040,017            |                                      | Makhael et al.                                  | 03/21/2000  |  |
| PIA                            |                       | 6,066,826            |                                      | Yializis  | 05/23/2000  |  |
| PIA                            |                       | 6,083,628            |                                      | Yializis  | 07/04/2000  |  |
| PIA                            |                       | 6,092,269            |                                      | Yializis et al.                                 | 07/25/2000  |  |
| PIA                            |                       | 6,106,627            |                                      | Yializis  | 08/22/2000  |  |
| PIA                            |                       | 6,118,218            |                                      | Yializis et al.                                 | 09/12/2000  |  |
| PIA                            |                       | 6,146,462            |                                      | Yializis et al.                                 | 11/14/2000  |  |

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|  |   | <b>Attorney Docket Number</b> VIT 0012 PA            |   |
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| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS |                       |  |                |
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Sheet 6 of 7

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|                        |                    |
|------------------------|--------------------|
| Application Number     | 09/966,163         |
| Filing Date            | September 28, 2001 |
| First Named Inventor   | Paul Burrows       |
| Group Art Unit         | 1772               |
| Examiner Name          |                    |
| Attorney Docket Number | VIT 0012 PA        |

### OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

| Initials | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|----------|-----------------------|---|----------------|
| PA       |                       | AFFINITO, J.D. ET AL., Vacuum Deposited Conductive Polymer Films, The Eleventh International Conference on Vacuum Web Coating, pgs. 1-12  | ✓              |
| PA       |                       | SHI, M.K. ET AL., In-situ and real-time monitoring of plasma-induced etching of PET and acrylic films, pgs. 1-25  | ✓              |
| PA       |                       | SHI, M.K. ET AL., Plasma treatment of PET and acrylic coating surfaces: I. In-situ XPS measurements, pgs. 1-28  | ✓              |
| PA       |                       | AFFINITO, J.D. ET AL., Vacuum deposited polymer/metal multilayer films for optical application, Thin Solid Films 270, 1995, pts. 43-48  | ✓              |
| PA       |                       | AFFINITO, J.D. ET AL., Molecularly Doped Polymer Composite Films for Light Emitting Polymer Applications Fabricated by the PML Process, 41st Technical Conference of the Society of Vacuum Coaters, April 1998, pgs. 1-6  | ✓              |
| PA       |                       | AFFINITO, J.D. ET AL., A new method for fabricating transparent barrier layers, Thin Solid Films 290-291, 1996, pgs. 63-67  | ✓              |
| PA       |                       | AFFINITO, J.D. ET AL., Vacuum deposited polymer/metal films for optical applications, pgs. 1-14   | ✓              |
| PA       |                       | AFFINITO, J.D. ET AL., Vacuum Deposition of Polymer Electrolytes On Flexible Substrates, The Ninth International Conference on Vacuum Web Coating, pgs. 1-16  | ✓              |
| PA       |                       | SHAW, D.G. ET AL., Use of Vapor Deposited Acrylate Coatings to Improve the Barrier Properties of Metallized Film, Society of Vacuum Coaters, 37th Annual Technical Conference Proceedings, 1994, pgs. 240-244   | ✓              |
| PA       |                       | CHAHROUDI, D., Transparent Glass Barrier Coatings for Flexible Film Packaging, Society of Vacuum Coaters, 34th Annual Technical Conference Proceedings, 1991, pts. 130-133  | ✓              |
| PA       |                       | TROPSHA, Y.G. ET AL., Activated Rate Theory Treatment of Oxygen and Water Transport through Silicon Oxide/Poly(ethylene terephthalate) Composite Barrier Structures, J. Phys. Chem. B, Vol. 101, No. 13, 1997, pgs. 2259-2266                                   | ✓              |

Examiner  
Signature

Row-F-Han

Date  
Considered

09/12/03

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| <b>Application Number</b>     | 09/966,192         |
| <b>Filing Date</b>            | September 28, 2001 |
| <b>First Named Inventor</b>   | Paul Barrows       |
| Group Art Unit                | 1772               |
| <b>Examiner Name</b>          |                    |
| <b>Attorney Docket Number</b> | VIT 0012 PA        |

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|-------------------------------|--------------------|
| <b>Application Number</b>     | 09/966,163         |
| <b>Filing Date</b>            | September 28, 2001 |
| <b>First Named Inventor</b>   | Paul E. Burrows    |
| <b>Group Art Unit</b>         | 1772               |
| <b>Examiner Name</b>          |                    |
| <b>Attorney Docket Number</b> | VIT 0012 PA        |

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